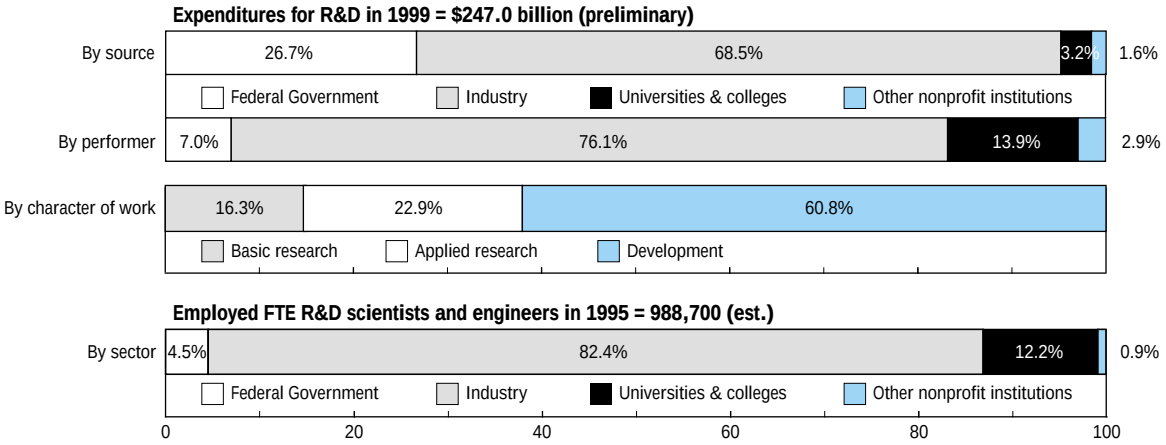
National R&D Funding Patterns

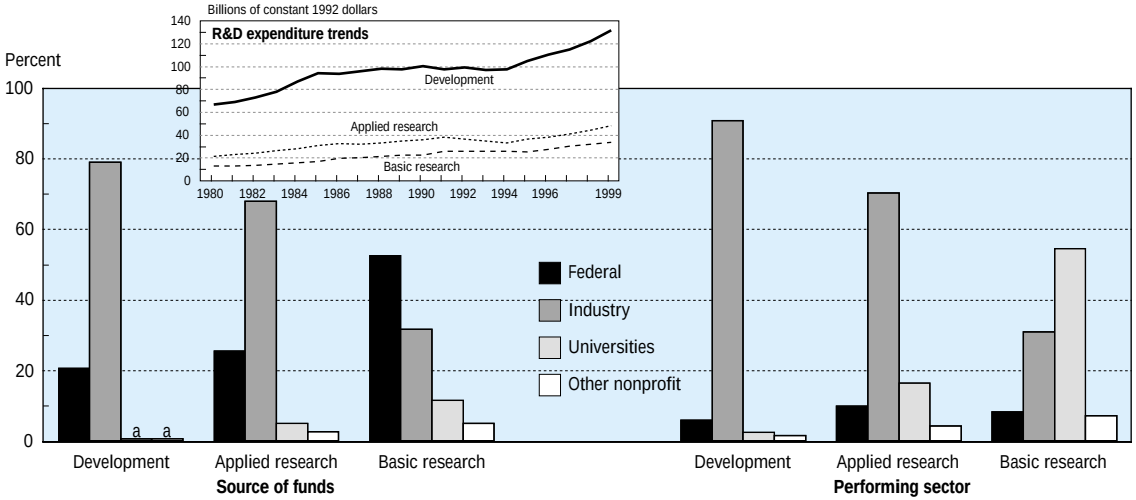
Figure 1. The national R&D effort



NOTES: Details may not total 100 because of rounding. R&D funds for Federally Funded Research and Development Centers are included in their affiliated sectors.

SOURCES: National Science Foundation, Division of Science Resources Studies, *Research and Development in Industry 1997,* NSF 99-312 (Arlington, VA, 1999); *Academic Research and Development Expenditures, Fiscal Year 1997,* NSF 99-336 (Arlington, VA, 1999); *Federal Funds for Research and Development: Fiscal Years 1997, 1998, and 1999,* NSF 99-333 (Arlington, VA, 1999).

Figure 2. **National R&D expenditures, funders, and performers, by character of work: 1999**



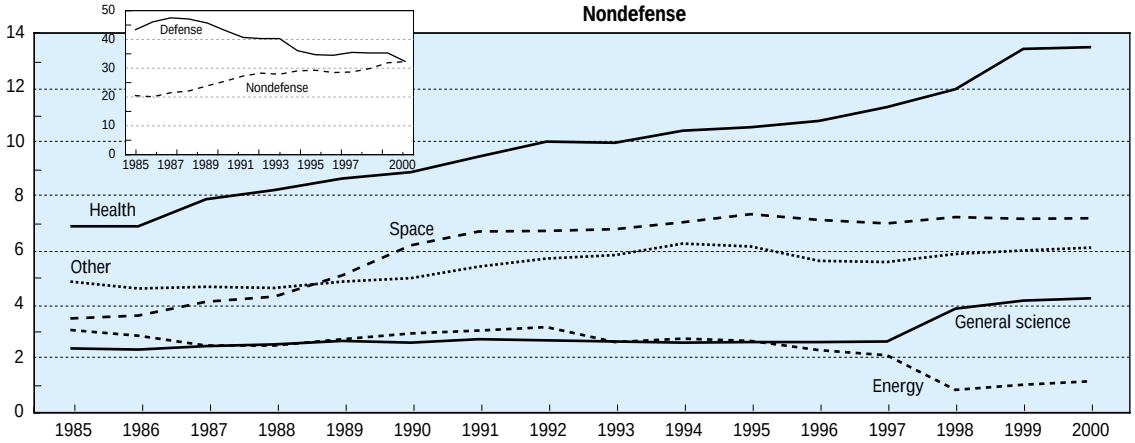
NOTE: Funds for Federally Funded Research and Development Center performers are included in their affiliated sectors.

[a] Less than 1 percent.

SOURCES: National Science Foundation, Division of Science Resources Studies, *Research and Development in Industry 1997,* NSF 99-312 (Arlington, VA, 1999); *Academic Research and Development Expenditures, Fiscal Year 1997,* NSF 99-336 (Arlington, VA, 1999); *Federal Funds for Research and Development: Fiscal Years 1997, 1998, and 1999,* NSF 99-333 (Arlington, VA, 1999).

Figure 3. Federal R&D funding, by budget function

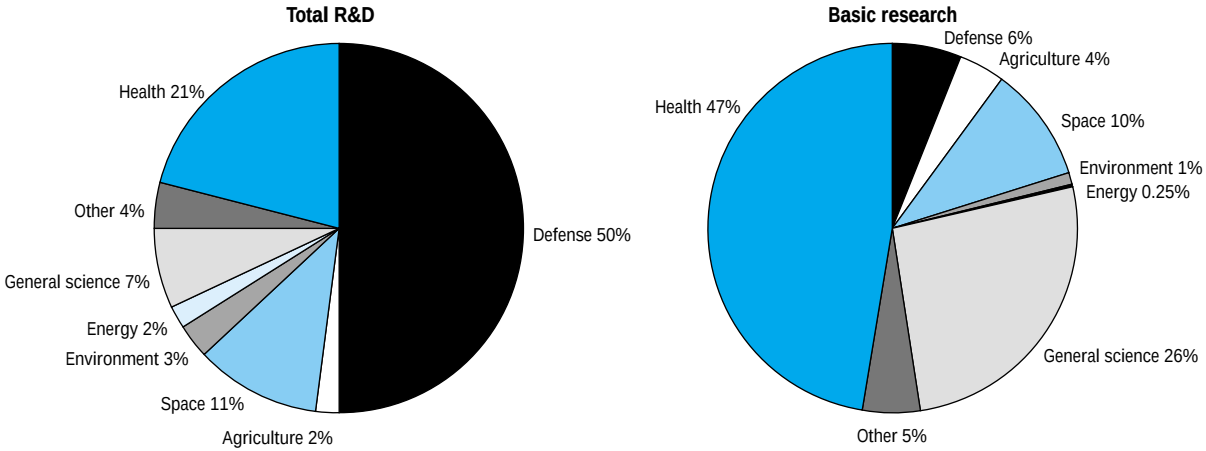
Billions of constant 1992 dollars



NOTES: "Other" includes all nondefense functions not separately graphed, such as agriculture and transportation. The 1998 changes in general science and in energy reflect a reclassification of programs.

SOURCES: National Science Foundation, Division of Science Resources Studies, *Federal Funds for Research and Development: Fiscal Years 1997, 1998, and 1999,* NSF 99-333 (Arlington, VA, 1999), *Federal R&D Funding by Budget Function: Fiscal Years 1998-2000,* NSF 00-303 (Arlington, VA, 1999); and Executive Office of the President, Office of Management and Budget.

Figure 4. **Federal R&D budget authority, by function: FY 2000**



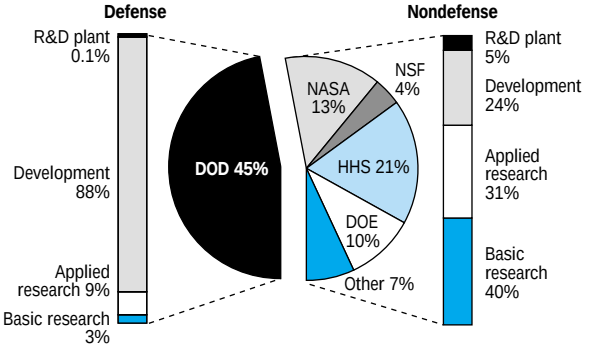
SOURCE: National Science Foundation, Division of Science Resources Studies, *Federal R&D Funding by Budget Function: Fiscal Years 1998-2000*, NSF 00-303 (Arlington, VA, 1999).

Figure 5. Federal obligations, by type of activity

(Millions of dollars)

Fiscal Year	Basic research		Applied research		Development	
	Current dollars	Constant 1992 dollars	Current dollars	Constant 1992 dollars	Current dollars	Constant 1992 dollars
1987	8,942	10,783	8,998	10,850	37,313	44,993
1988	9,474	11,040	9,177	10,691	38,119	44,423
1989	10,602	11,854	10,164	11,364	40,641	45,439
1990	11,286	12,116	10,337	11,097	41,937	45,021
1991	12,171	12,528	11,798	12,144	37,327	38,422
1992	12,490	12,490	12,001	12,001	41,102	41,102
1993	13,399	13,054	13,491	13,144	40,424	39,384
1994	13,523	12,865	13,888	13,211	39,824	37,885
1995	13,877	12,891	14,557	13,523	39,752	36,927
1996	14,464	13,178	13,796	12,569	39,393	35,892
1997	14,942	13,361	14,423	12,898	40,461	36,184
1998	15,613	13,796	15,309	13,528	40,981	36,202
1999	17,367	15,149	16,455	14,353	41,530	36,239
2000	18,209	15,573	16,470	14,085	40,425	34,581

Total obligations for R&D and R&D plant in FY 2000 = $77.2 billion



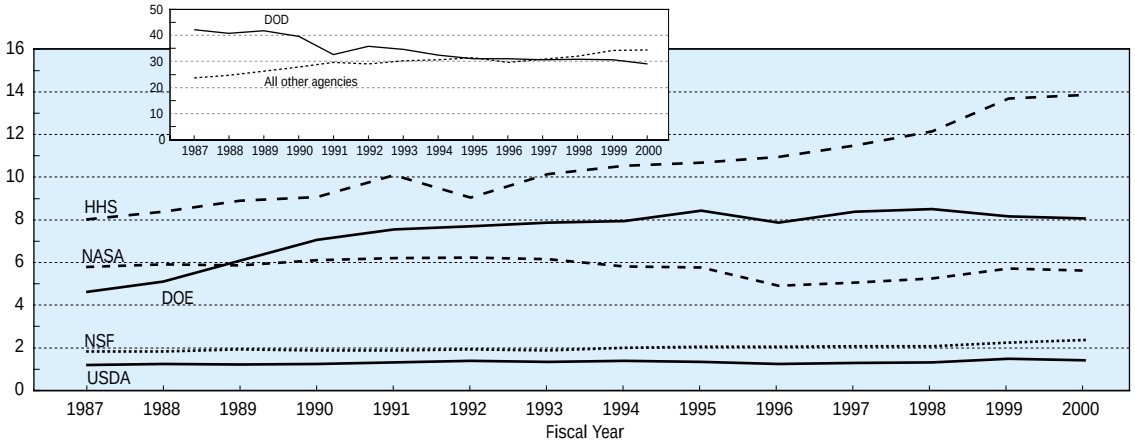
KEY: DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

NOTE: R&D plant (not shown in table) was estimated at $2.1 billion in FY 2000.

SOURCES: National Science Foundation, Division of Science Resources Studies, *Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000,* NSF 00-317 (Arlington, VA, 2000); and Office of Management and Budget, unpublished tabulations.

Figure 6. Federal R&D obligations, by selected agency

Billions of constant 1992 dollars



KEY: DOD = Department of Defense; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; DOE = Department of Energy; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

SOURCES: National Science Foundation, Division of Science Resources Studies, *Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000*, NSF 00-317 (Arlington, VA, 2000); and Office of Management and Budget, unpublished tabulations.